

202

7.1 HW

p346 20-23, 26, 28, 30

$$20. \frac{\frac{13}{7}}{m} = \frac{m}{5/7}$$

$$\sqrt{m^2} = \sqrt{\frac{65}{49}}$$

$$m = \frac{\sqrt{65}}{7}$$

$$21. \frac{5}{AD} = \frac{AD}{9}$$

$$AD^2 = 45$$

$$AD = 3\sqrt{5}$$

$$22. \frac{12}{EH} = \frac{EH}{12}$$

$$EH^2 = 144$$

$$EH = 12$$

$$23. \frac{8}{ML} = \frac{ML}{16}$$

$$\sqrt{ML^2} = \sqrt{8 \cdot 16}$$

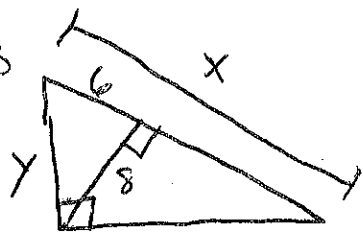
$$ML = 8\sqrt{2}$$

$$26. \frac{2.5}{ZN} = \frac{ZN}{10}$$

$$ZN^2 = 25$$

$$ZN = 5$$

28.



$$\frac{6}{8} = \frac{8}{x-6}$$

$$6x - 36 = 64$$

$$6x = 100$$

$$x = \frac{50}{3}$$

$$\frac{6}{y} = \frac{y}{x}$$

$$\frac{6}{y} = \frac{y}{50/3}$$

$$y^2 = \frac{2 \cdot 50}{3}$$

$$y^2 = 100$$

$$y = 10$$

$$\frac{x}{z} = \frac{z}{x-6}$$

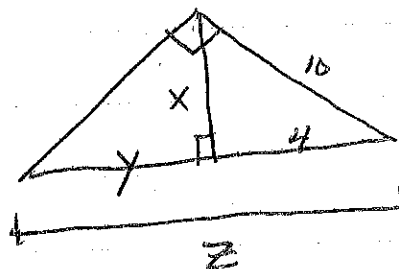
$$\frac{50/3}{z} = \frac{z}{32/3}$$

$$z^2 = \frac{50 \cdot 32}{3}$$

$$\sqrt{z^2} = \sqrt{\frac{1600}{9}}$$

$$z = \frac{40}{3}$$

30.



$$\frac{y}{x} = \frac{x}{4}$$

$$\frac{4}{10} = \frac{10}{z}$$

$$\frac{21}{x} = \frac{x}{4}$$

$$\sqrt{x^2} = \sqrt{4 \cdot 21}$$

$$x = 2\sqrt{21}$$

$$4z = 100$$

$$z = 25$$

$$25 - 4 = y$$

$$21 = y$$